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SEQ ID NO:1	<u>ATG</u>	<u>GCT</u>	<u>GCA</u>	<u>GGC</u>	<u>TCC</u>	<u>CGG</u>	<u>ACG</u>	<u>TCC</u>	<u>CTG</u>	<u>CTC</u>	<u>CTG</u>	<u>GGC</u>	<u>TTT</u>	<u>GCT</u>	<u>CTG</u>	<u>CTC</u>	<u>CTG</u>	<u>CTC</u>	<u>TCG</u>
SEQ ID NO:2			<u>ACA</u>																
SEQ ID NO:3			<u>GCA</u>																
SEQ ID NO:4			<u>ACA</u>																
	<u>CTG</u>	<u>TCC</u>	<u>TGG</u>	<u>CTT</u>	<u>CAA</u>	<u>GAG</u>	<u>GGC</u>	<u>AGT</u>	<u>GCC</u>	<u>TTC</u>	<u>CCA</u>	<u>ACC</u>	<u>ATT</u>	<u>CCC</u>	<u>TTA</u>	<u>TCC</u>		<u>AGG</u>	
		<u>CCC</u>																	
		<u>TCC</u>																	
		<u>CCC</u>																	
	<u>CTT</u>	<u>TTT</u>	<u>GAC</u>	<u>AAC</u>	<u>GCT</u>	<u>ATG</u>	<u>CTC</u>	<u>CGC</u>	<u>GCC</u>	<u>CGT</u>	<u>CGC</u>	<u>CTG</u>	<u>TAC</u>	<u>CAG</u>	<u>CTG</u>	<u>GCA</u>	<u>TAT</u>		
										<u>CAT</u>	<u>CGT</u>		<u>CAC</u>			<u>GCC</u>	<u>TTT</u>		
										<u>CGT</u>	<u>CGC</u>		<u>TAC</u>			<u>GCA</u>	<u>TAT</u>		
										<u>CAT</u>	<u>CGT</u>		<u>CAC</u>			<u>GCC</u>	<u>TTT</u>		
	<u>GAC</u>	<u>ACC</u>	<u>TAT</u>	<u>CAG</u>	<u>GAG</u>	<u>TTT</u>	<u>GAA</u>	<u>GAA</u>	<u>GCC</u>	<u>TAT</u>	<u>ATC</u>	<u>CTG</u>	<u>AAG</u>	<u>GAG</u>	<u>CAG</u>	<u>AAG</u>	<u>TAT</u>		
			<u>TAC</u>									<u>CTA</u>	<u>GAA</u>						
			<u>TAT</u>																
			<u>TAC</u>																
	<u>TCA</u>	<u>TTC</u>	<u>CTG</u>	<u>CAG</u>	<u>AAC</u>	<u>CCC</u>	<u>CAG</u>	<u>ACC</u>	<u>TCC</u>	<u>CTC</u>	<u>TGC</u>	<u>TTC</u>	<u>TCA</u>	<u>GAG</u>	<u>TCT</u>	<u>ATT</u>	<u>CCA</u>		
											<u>TGT</u>						<u>CCG</u>		
											<u>TGC</u>						<u>CCA</u>		
											<u>TGT</u>						<u>CCG</u>		
	<u>ACA</u>	<u>CCT</u>	<u>TCC</u>	<u>AAC</u>	<u>AGG</u>	<u>GTG</u>	<u>AAA</u>	<u>ACG</u>	<u>CAG</u>	<u>CAG</u>	<u>AAA</u>	<u>TCT</u>	<u>AAC</u>	<u>CTA</u>	<u>GAG</u>	<u>CTG</u>	<u>CTC</u>		
			<u>CCC</u>			<u>GAG</u>	<u>GAA</u>	<u>ACA</u>	<u>CAA</u>			<u>TCC</u>							
			<u>CCT</u>			<u>GTG</u>	<u>AAA</u>	<u>ACG</u>	<u>CAG</u>			<u>TCT</u>							
			<u>CCC</u>			<u>GAG</u>	<u>GAA</u>	<u>ACA</u>	<u>CAA</u>			<u>TCC</u>							
	<u>CGC</u>	<u>ATC</u>	<u>TCC</u>	<u>CTG</u>	<u>CTC</u>	<u>ACT</u>	<u>CAG</u>	<u>TCA</u>	<u>TGG</u>	<u>CTG</u>	<u>GAG</u>	<u>CCC</u>	<u>GTG</u>	<u>CAG</u>	<u>CTC</u>	<u>CTC</u>	<u>CTC</u>		
								<u>TCG</u>								<u>TCT</u>			
								<u>TCA</u>								<u>CTC</u>			
								<u>TCG</u>								<u>TCT</u>			

Figure 1 Translated nucleotide sequence of hGH variants. Dashes indicate section deleted in 20 kDa hGH-V and 20 kDa hGH-N. Underlined section indicates signal sequence.

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AGG	AGC	GTC	TTC	GCC	AAC	AGC	CTG	GTC	TAT	GAC	AGC	AAC	GTC
	AGT							TCT	TAC				
	AGC							TCG	TAT				
	AGT							TCT	TAC				
TAT	CGC	CAC	CTG	AAG	GAC	CTA	GAG	GAA	GGC	ATC	CAA	ACG	CTG
	GAC	CTC	CTA										ATG
	CGC	CAC	CTG										TGG
	GAC	CTC	CTA										GGG
CTG	GAA	GAT	GGC	AGC	CCC	CGG	ACT	GGG	CAG	ATC	TTC	AAT	TCC
												AAG	ACC
												AAT	TCC
												AAG	ACC
AAG	TTT	GAC	ACA	AAA	TCG	CAC	AAC	GAT	GAC	GCA	CTG	CTC	AAG
	TTC		AAC	TCA							CTA		AAC
	TTT		AAA	TCG							CTG		TAC
	TTC		AAC	TCA							CTA		GGG
CTG	CTC	TAC	TGC	TTC	AGG	AAG	GAC	ATG	GAC	AAG	GTC	GAG	ACA
													TTC
													CTG
ATC	GTG	CAG	TGC	CGC	TCT	GTG	GAG	GGC	AGC	TGT	GGC	TTC	TAG

Figure 1 Cont. Translated nucleotide sequence of hGH variants. Dashes indicate section deleted in 20 kDa hGH-Y and 20 kDa hGH-N.

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SEQ ID NO:5	20	Leu	Arg	Arg	Ala	Arg	Leu	Met	Ala	Asn	Asp	Phe	Leu	Arg	Ser	Leu	Pro	Ile	Thr	Pro	Phe	Tyr
SEQ ID NO:6		His	His					Ser														His
SEQ ID NO:7		Arg	Arg					Met														Tyr
SEQ ID NO:8		His	His					Ser														His
	40	Gln	Glu	Lys	Leu	Ile	Tyr	Ala	Glu	Glu	Phe	Glu	Tyr	Thr	Asp	Tyr	Ala	Leu	Gln	Glu	Tyr	
					Pro																His	
	60	Thr	Pro	Ile	Ser	Glu	Ser	Phe	Cys	Leu	Ser	Thr	Gln	Pro	Gln	Leu	Phe	Ser	Tyr	Lys		
	80	Leu	Ser	Ile	Arg	Leu	Leu	Glu	Leu	Asn	Ser	Lys	Gln	Gln	Thr	Lys	Val	Arg	Asn	Ser	Pro	
	100	Ser	Asn	Ala	Phe	Val	Ser	Arg	Leu	Gln	Val	Thr	Glu	Gln	Trp	Ser	Gln	Ile	Leu	Leu		

Figure 2. Predicted amino acid sequences for 22 kDa hGH-V, 22 kDa hGH-N, 20 kDa hGH-V, 20 kDa hGH-N. A dash indicates deleted amino acids.

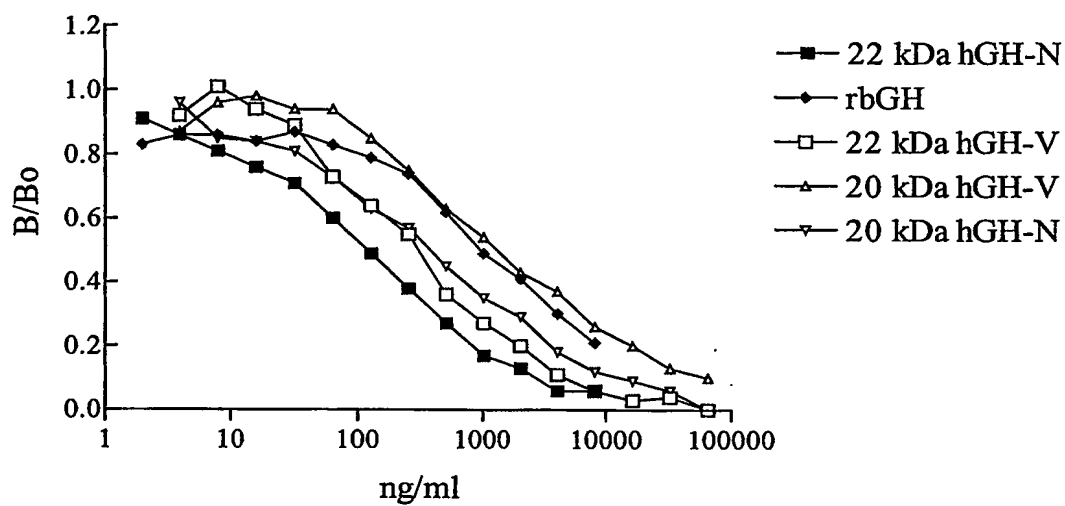
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[illegible]

Figure 2. Cont.
Predicted amino acid sequences for 22 kDa hGH-V, 20 kDa hGH-N, 20 kDa hGH-V, 20 kDa hGH-N. A dash indicates deleted amino acids.

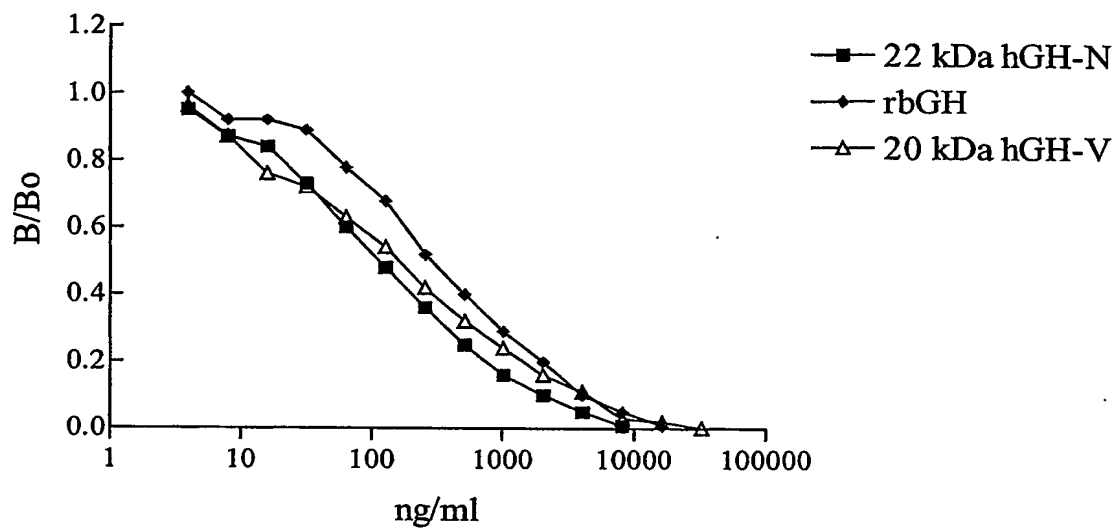
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**bGH Radioreceptor Assay
rbGH Tracer; Assay 0426**

**FIGURE 3**

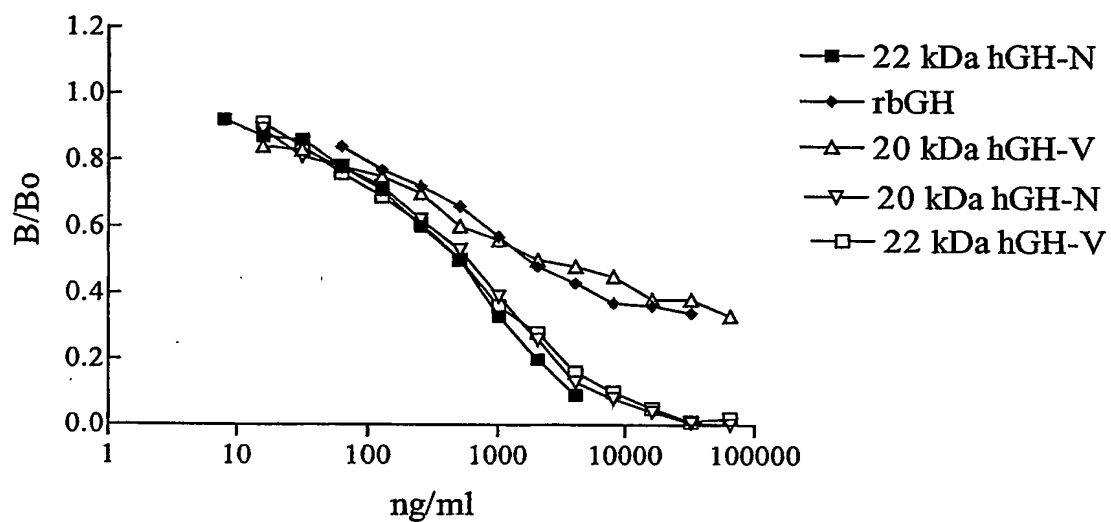
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**bGH Radioreceptor Assay
rbGH Tracer; Assay 0440**

**FIGURE 4**

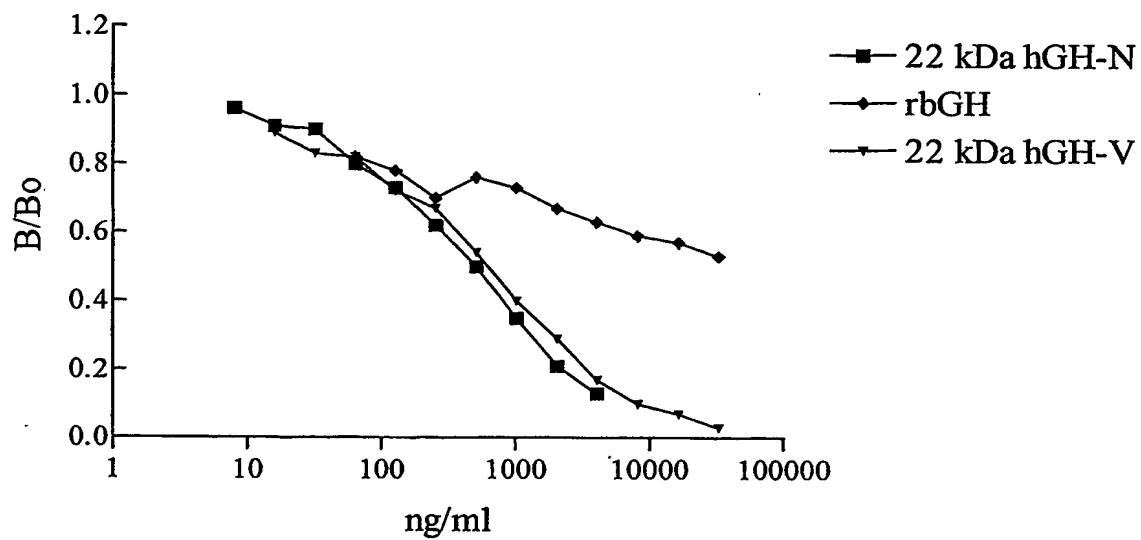
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**hGH Radioreceptor Assay
rhGH Tracer; Assay 0434**

**FIGURE 5**

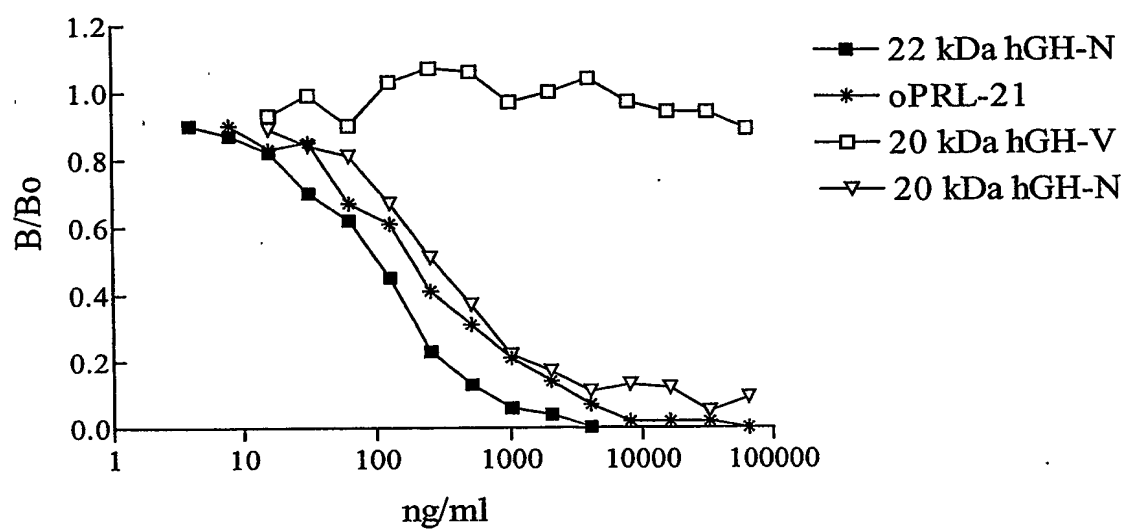
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hGH Radioreceptor Assay
rhGH Tracer; Assay 0435

**FIGURE 6**

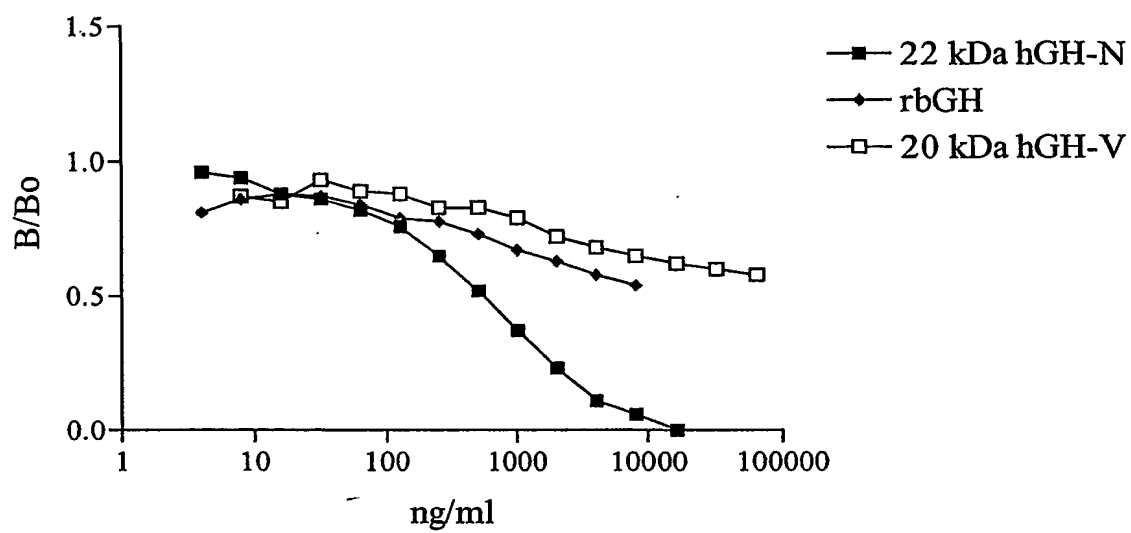
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oPRL Radioreceptor Assay
oPRL Tracer; Assay 0439

**FIGURE 7**

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hGH Radioreceptor Assay
rhGh Tracer; Assay 0441

**FIGURE 8**

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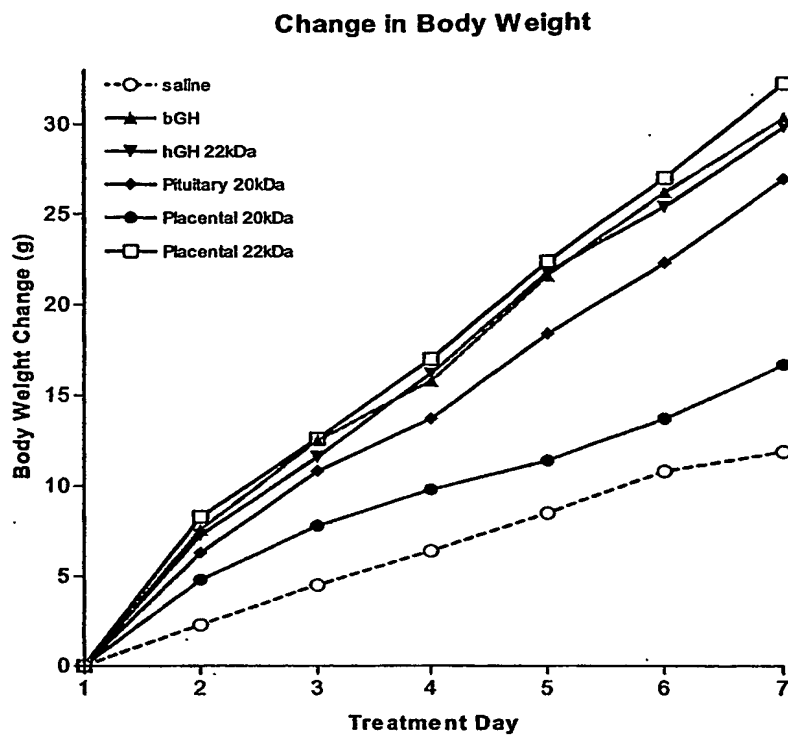


Figure 9

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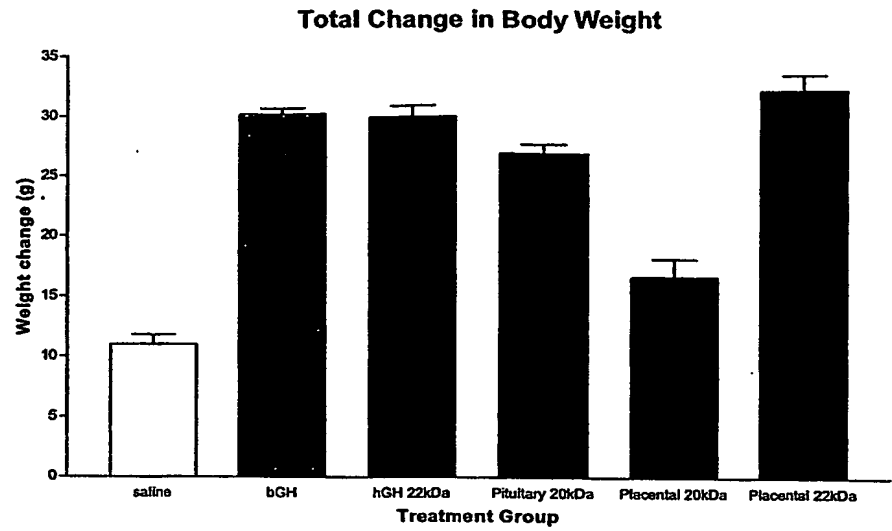


Figure 10A

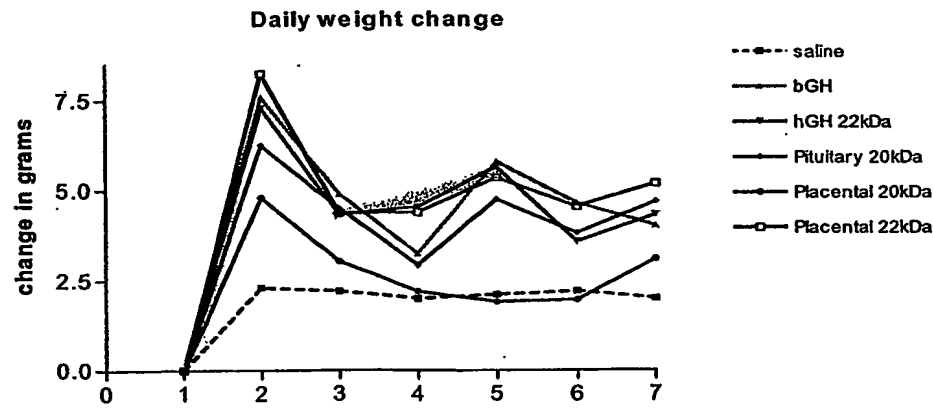
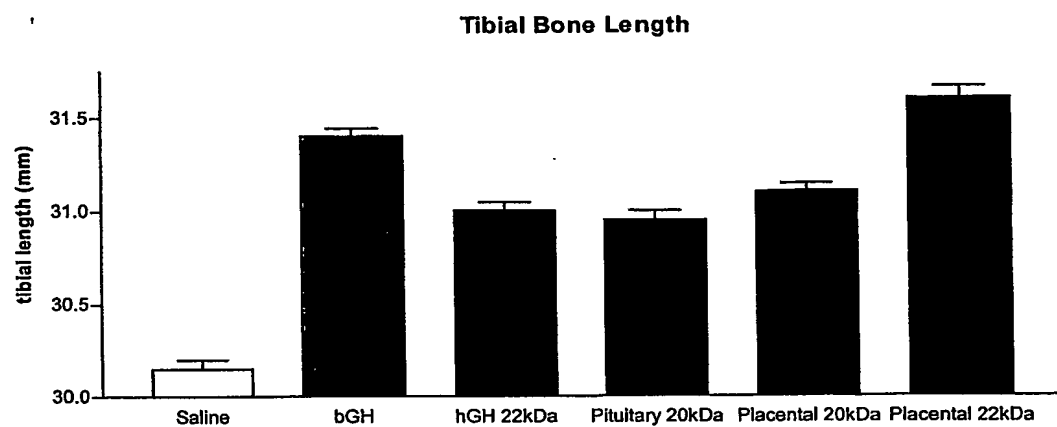
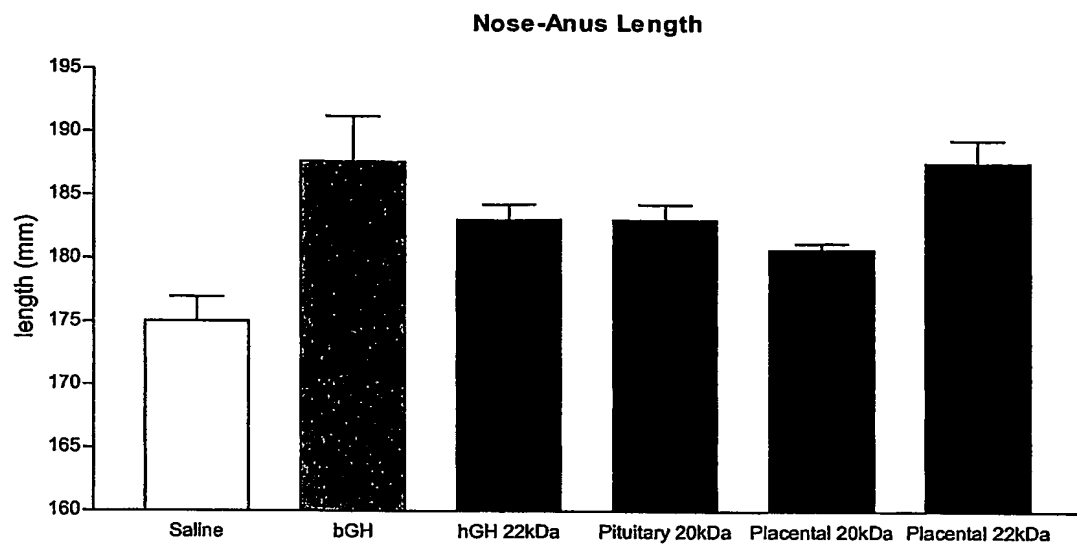


Figure 10B

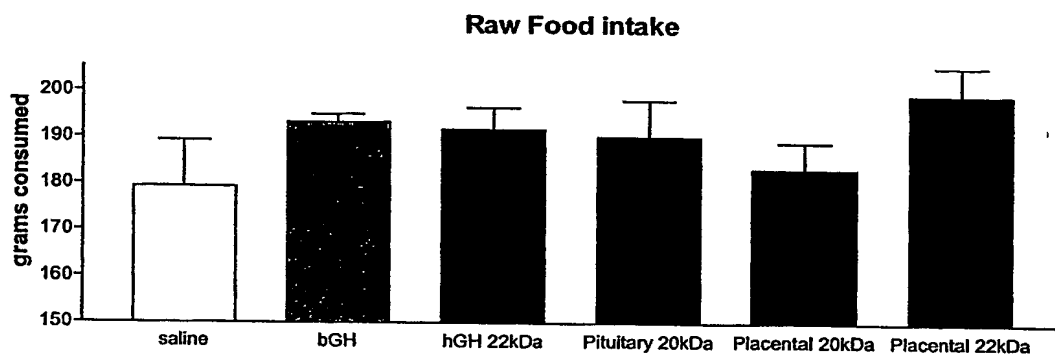
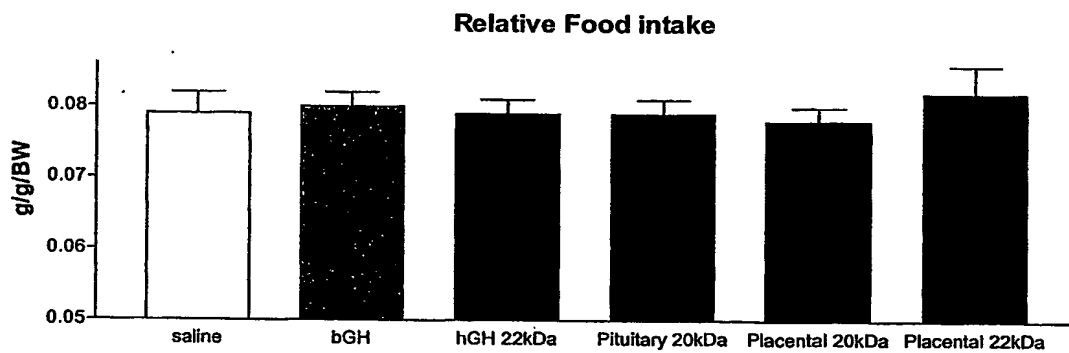
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**FIGURE 11**

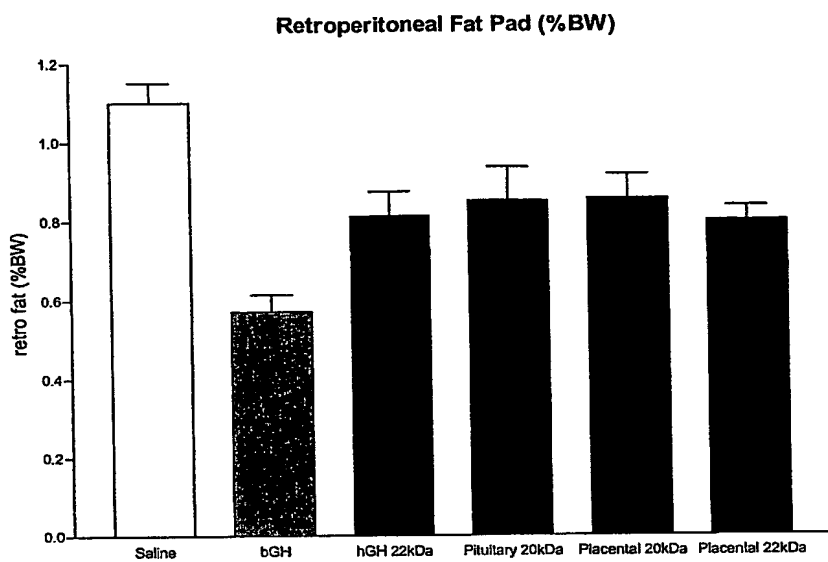
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**FIGURE 12**

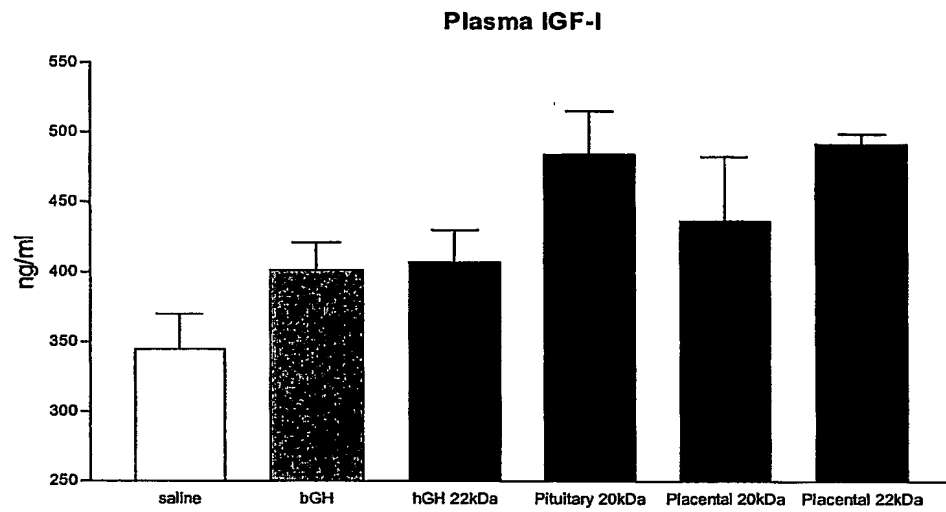
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*Figure 13A**Figure 13B*

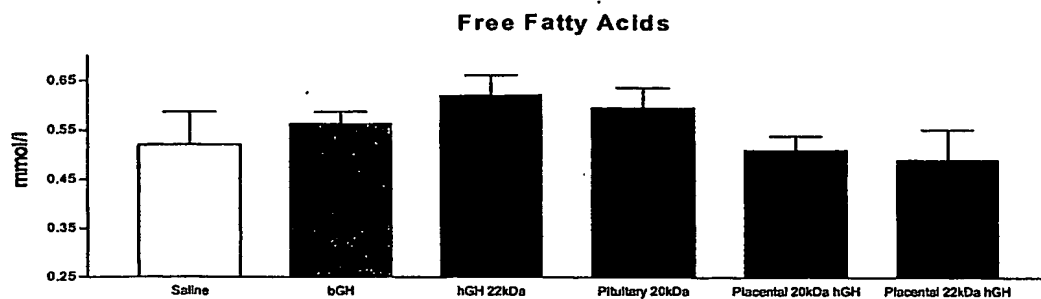
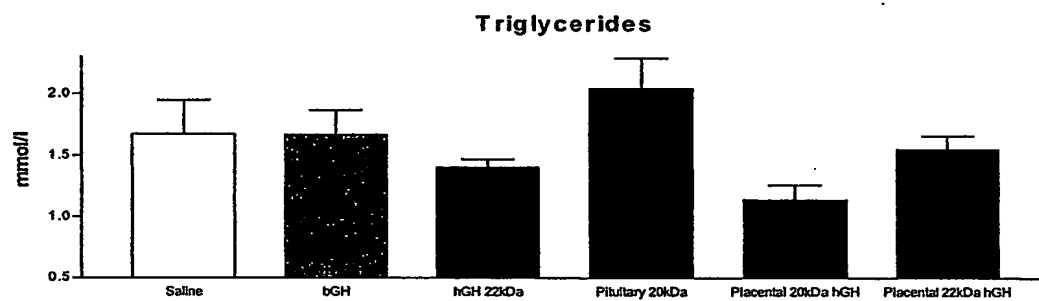
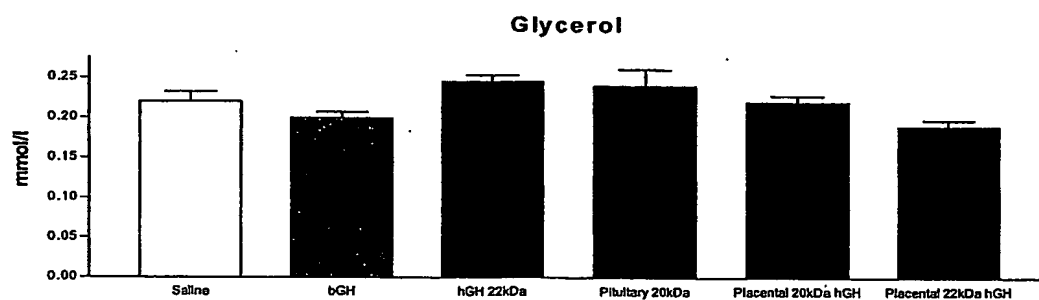
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**FIGURE 14**

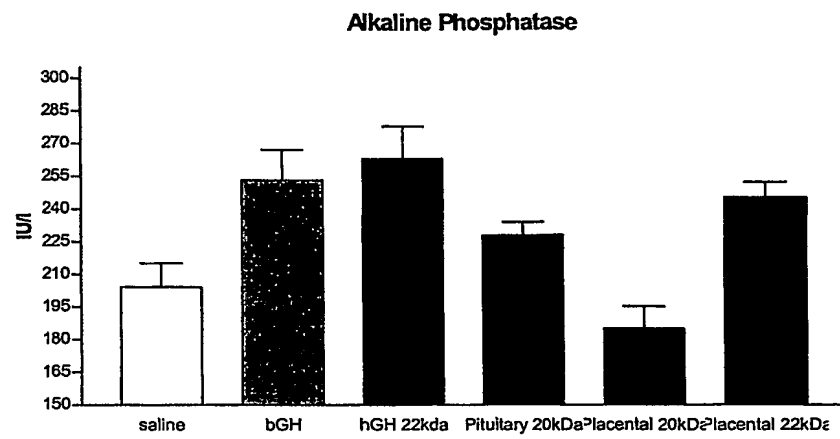
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**FIGURE 15**

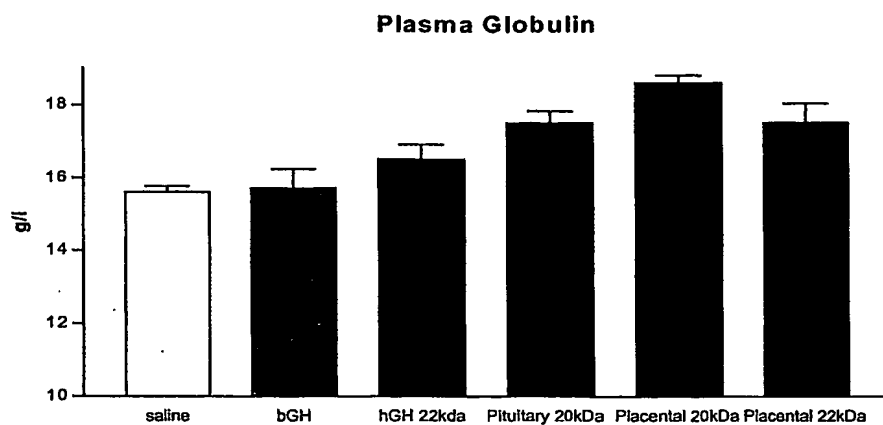
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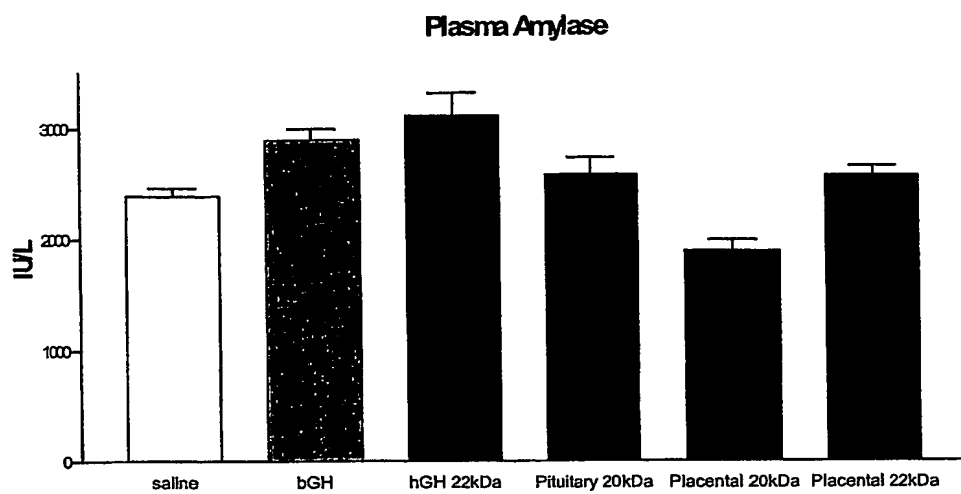
*Figure 16A**Figure 16B**Figure 16C*

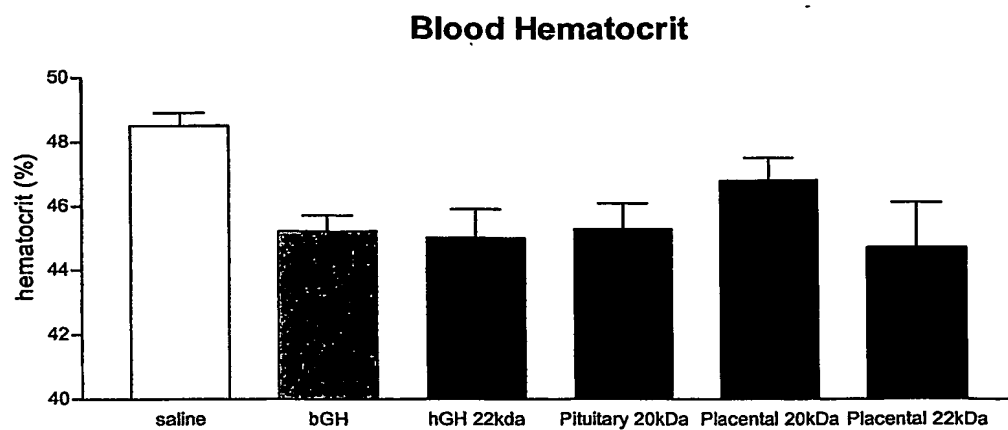
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**FIGURE 17**

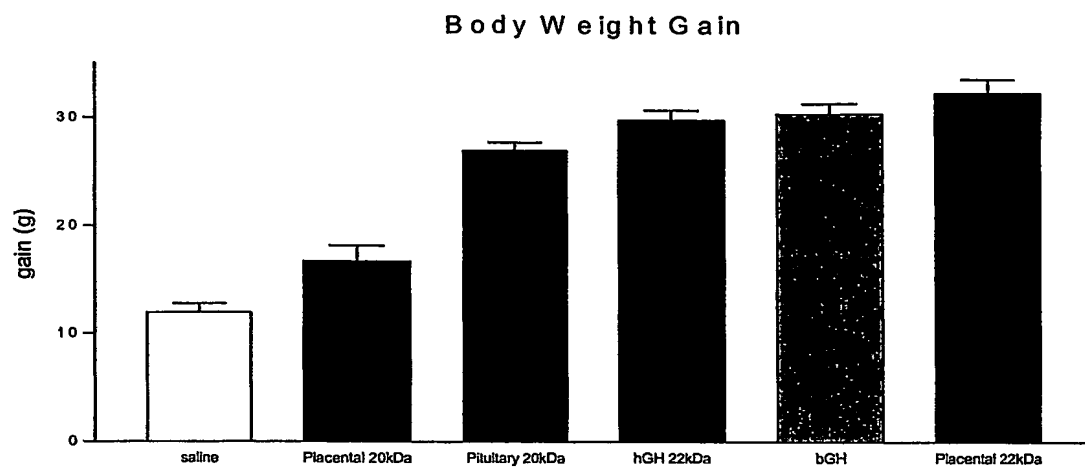
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**FIGURE 18**

**FIGURE 19**

**FIGURE 20**

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**FIGURE 21**